Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in this application. Please amend the claims as follows:

Claims

We Claim:

1. (Currently Amended) A method for reducing hydrogen sulfide emissions from asphalt, comprising:

adding zinc oxide to asphalt in an amount effective to reduce hydrogen sulfide (H₂S) emissions, and

wherein an amount of from greater than 0.05 0.1 wt % to less than 3.0 wt % of zinc oxide is added to the asphalt;

adding from 0.01 wt % to less than 0.05 wt % of a crosslinker to the asphalt; and wherein the zinc oxide reduces hydrogen sulfide emissions.

- 2. (Cancelled).
- 3. (Original) The method of claim 1 where the hydrogen sulfide emission is reduced to about 50 ppm or lower.
- 4. (Previously Presented) The method of claim 1 where the zinc oxide is added in an amount ranging from 0.5 to 2 wt% based on the asphalt.
- 5. (Cancelled).
- 6. (Cancelled).
- 7. (Currently Amended) The method of claim 6-1 where-in adding the crosslinker, the crosslinker is further selected from the group consisting of elemental sulfur, mercaptobenzothiazole (MBT), thiurams, dithiocarbamates, mercaptobenzimidazole, and mixtures thereof.

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- 8. (Cancelled).
- 9. (Previously Presented) The method of claim 1 further comprised of adding aggregate.
- 10. (Currently Amended) A method for preparing asphalt comprising: heating asphalt;

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adding a crosslinker to the mixture, where the crosslinker is selected from the group consisting of elemental sulfur, mercaptobenzothiazole (MBT), thiurams, dithiocarbamates, mercaptobenzimidazole, and mixtures thereof; and

reducing hydrogen sulfide (H₂S) emissions in the asphalt by adding- an amount of from 0.05 greater than 1.0 wt% to less than 3.0 wt% of said zinc oxide.

- (Currently Amended) The method of claim 10 further comprised of adding a vinyl 11. aromatic/conjugated diene elastomeric polymer to said asphalt, where the zine oxide is added in an amount greater than 0.15 wt% to less than 3.0 wt% and where the crosslinker is present in an amount-ranging from about 0.01 to 0.6 wt%.
- (Currently Amended) The method of claim 10 wherein zinc oxide that scavenges 12. H₂S is added in an amount ranging from 0.5 to about 2 wt.% based on the asphalt composition.
- 13. (Cancelled).
- 14. (Cancelled).
- (Original) The method of claim 10 where the hydrogen sulfide emission is 15. reduced to about 50 ppm or lower.

- 16. (Previously Presented) The method of claim 10 further comprised of adding aggregate.
- 17. (Previously Presented) An asphalt prepared by the method of claim 10.
- 18.-21. (Cancelled).
- 22. (Previously Presented) A road made from the asphalt of claim 17 and aggregate.
- 23. (Previously Presented) A roof sealed with the asphalt of claim 17.
- 24. (Previously Presented) A method of sealing a roof with asphalt comprising heating the asphalt of claim 17 and distributing it over at least a portion of a roof surface.
- 25. (Currently Amended) A method of road building comprising combining the asphalt of claim 17 with aggregate to form a road paving material, and using the material to form road pavement.
- 26. (Cancelled).
- 27. (Currently Amended) A method of recycling asphalt comprising: physically removing asphalt from a location; and in any order reducing the size of the removed asphalt; heating the removed asphalt; and adding zinc oxide to the asphalt in an amount effective to reduce hydrogen sulfide (H₂S) emissions, wherein an amount of from greater than 1 wt % 0.05 wt % to less than 3.0 wt % of zinc oxide is added to the asphalt.
- 28. (Previously Presented) Asphalt made by the method of claim 27.
- 29. (Cancelled).

- 30. (Previously Presented) The method of claim 1 where the hydrogen sulfide emission is reduced to about 10 ppm or lower.
- 31. (Previously Presented) The method of claim 1 further comprising the step of reducing H₂S emissions by adding the cross-linking agent at 280° F.
- 32. (Previously Presented) The method of claim 1 further comprising the step of reducing H₂S emissions by adding the cross-linking agent at a lowest temperature at which asphalt can be effectively pumped.
- 33. (Previously Presented) An asphalt made by the method of claim 1.
- 34. (Previously Presented) An asphalt made by the method of claim 11.
- 35. (Currently Amended) The method of claim 27 wherein the asphalt is polymer modified and wherein greater than 0.15 wt % to less than 3.0 wt % of zine oxide is added and wherein thea crosslinker is present in an amount ranging from about 0.01 to 0.6 wt%.
- 36. (New) The method of claim 10 further comprising the step of adding a crosslinker ranging from 0.01 to 0.6 wt% based on the weight of the asphalt.
- 37. (New) A method for reducing hydrogen sulfide emissions from a non-elastomeric base asphalt, comprising:

adding zinc oxide to a non-elastomeric base asphalt in an amount effective to reduce hydrogen sulfide (H₂S) emission;

wherein an amount of from greater than 0.1 wt % to less than 3.0 wt % of zinc oxide is added to the asphalt; and

wherein the zinc oxide reduces hydrogen sulfide emissions.

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(New) The method of claim 37 further comprising the step of adding a crosslinker 38. in an amount ranging from about 0.01 to 0.6 wt%, wherein the crosslinker is selected from the group consisting of elemental sulfur, mercaptobenzothiazole (MBT), thiurams, dithiocarbamates, mercaptobenzimidazole, and mixtures thereof.

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(New) The method of claim 37 wherein the asphalt is comprised of recycled 39. asphalt.